Braukmann
FK74CS-LF
Lead-free filter combination
with pressure reducing valve and reverse rinsing fine filter

Application
The filter combinations comprise reverse rinsing filter and pressure reducing valve in one appliance. They ensure a continuous supply of filtered water. The fine filter stops the ingress of foreign bodies, for example rust particles, strands of hemp and grains of sand and thus reduces the probability of corrosion. The pressure reducing valve prevents pressure damage and reduces water consumption.

The filter combinations are fitted in systems where a pressure reducing valve is required. Both horizontal and vertical installation is possible.



Approvals
- DVGW

approval for all filters with 100 µm mesh sizes and with rotatable connection piece

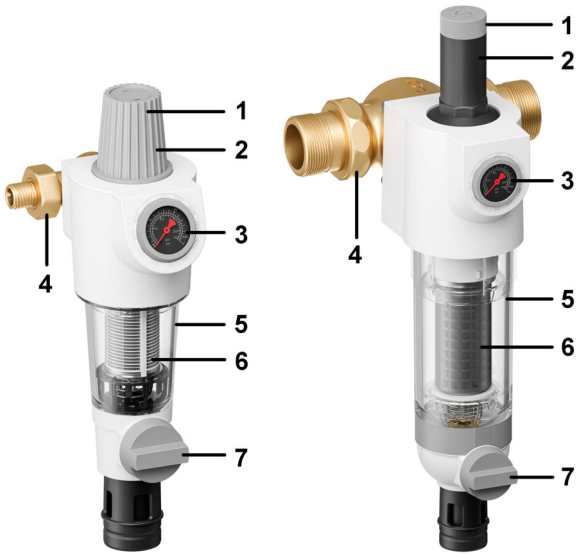
Special Features
- LEAD-FREE: Pb content of all materials in contact with medium less than 0.1 %
- Integral pressure reducing valve with balanced seat
- Inlet pressure balancing – no influence on outlet pressure by fluctuating inlet pressure
- Large filter surface
- Filtered water supplied even during reverse rinsing
- Filter insert fully replaceable
- Reverse rinsing system - fast and thorough cleaning of the filter with small amount of water
- Memory ring indicates when next manual reverse rinsing is due
- Automatic reverse rinsing actuator with ISO-flange connector can be retrofitted
- Shock resistant clear synthetic material filter bowl enables easy checking of filter contamination
- Standardised discharge connection
- ACS certified
- All materials are KTW approved
- Approved by TÜV LGA for low noise, Group 1 without limitations
- 5-year warranty

Technical Data

Medium	
Medium:	Drinking water
Connections/Sizes	
Connection size:	$^1/_2$" - 2" (with rotatable connector piece)
Pressure values	
Operating pressure range:	1.5 - 16 bar
Max. inlet pressure:	16 bar (up to 12 bar long*-term)
Outlet pressure:	1.5 - 6 bar adjustable
Operating temperatures	
Operating temperature range medium accord. to EN 1567:	5 - 30 °C
Specifications	
Installation position:	Horizontal or vertical, with filter bowl downwards

* For maintaining the measuring accuracy of the manometer, a continuous maximum pressure load of 12 bar is permitted.

Construction

Overview			
		**Components**	**Materials**
	1	Adjustment handle	High-quality synthetic material
	2	Spring bonnet with internal adjustment screw	High-quality synthetic material
	3	Housing with pressure gauge	**FK74CS-LF $^1/_2$" - $1^1/_4$":** High-quality synthetic material **FK74CS-LF $1^1/_2$" - 2":** Lead-free brass
	4	Rotatable connector piece, threaded connection set	**FK74CS-LF $^1/_2$" - 2":** Lead-free brass
	5	Wrench for filter bowl and spring bonnet	Plastic
	6	Fine filter	Stainless steel
	7	Reverse rinsing handle	Synthetic material
		Not depicted components:	
		Memory ring	Plastic
		Allen key	Stainless steel
		Valve insert complete with diaphragm and valve seat	High-quality synthetic material
		Clear filter bowl	Shock-resistant, clear transparent synthetic material
		Ball valve with drain connection	Lead-free brass (Ball Valve body), Lead-free material (ball), Plastic-durethan (drain adapter)
		Diaphragm	EDPM
		Sealing washers	EPDM

Method of Operation

The filter combination combines reverse rinsing filter and pressure reducing valve in one appliance.

The filter insert comprises an upper part and a lower combination section. When in the „filtering“ position, the small upper filter is closed so that the water can only pass through the main filter from outside to inside. When the ball valve is opened for reverse rinsing, the filter is pushed downwards until the water supply to the outer side of the main filter is stopped. Simultaneously, the water flow is opened to the upper part of the filter. The water needed for cleaning the filter passes through the upper sieve, the rotating impeller and the main filter from inside to outside. By this means, the filter is fully cleaned over its whole surface area at the full inlet pressure. The filter automatically switches over to the operating position when the ball valve is closed again.

The integral pressure reducing valve functions on a balanced force principle whereby the force exerted by a diaphragm is balanced against the force of an adjustment spring. The inlet pressure has no influence on opening or closing of the valve. Inlet pressure fluctuation does not therefore affect the outlet pressure.

Transportation and Storage

Keep parts in their original packaging and unpack them shortly before use.

The following parameters apply during transportation and storage:

Parameter	Value
Environment:	clean, dry and dust free
Min. ambient temperature:	5 °C
Max. ambient temperature:	55 °C
Min. ambient relative humidity:	25 % *
Max. ambient relative humidity:	85 % *

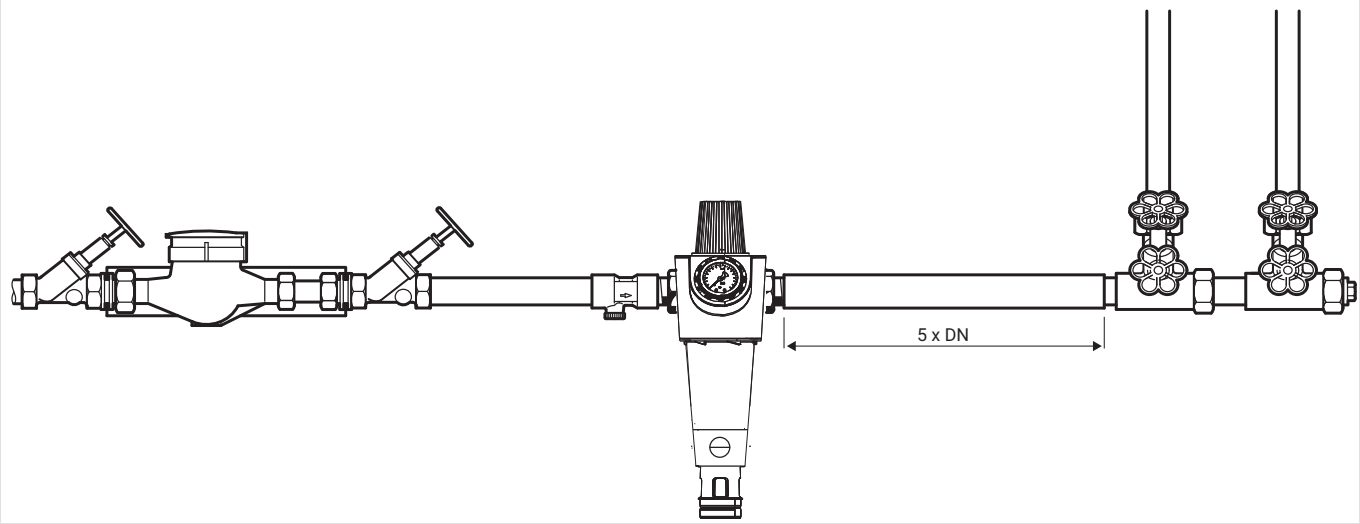
*non condensing

Installation Guidelines

Setup requirements

- The installation site has to be frost-proof and the protection of the device from chemicals, paints, detergents, solvents and their vapours and environmental influences must be guaranteed
- Install in horizontal or vertical pipework with filter bowl downwards
  - This position ensures optimum filter efficiency
- Install shut-off valves
- These filters are armatures which need to be maintained regularly
- Ensure good access (consider EN1717 requirements)
  - Pressure gauge can be read off easily
  - Degree of contamination can be easily seen with clear filter bowl
  - Simplifies maintenance and inspection
- It is recommended that a straight section of pipework at least five times the nominal valve size is provided after the filter (according to DIN EN 806-2)
- Fit immediately after water meter
- Related to the EN 806-2 it is recommended to install the filter immediately after the water meter
- In order to avoid flooding, it is recommended to arrange a permanent, professionally dimensioned wastewater connection

Installation Example

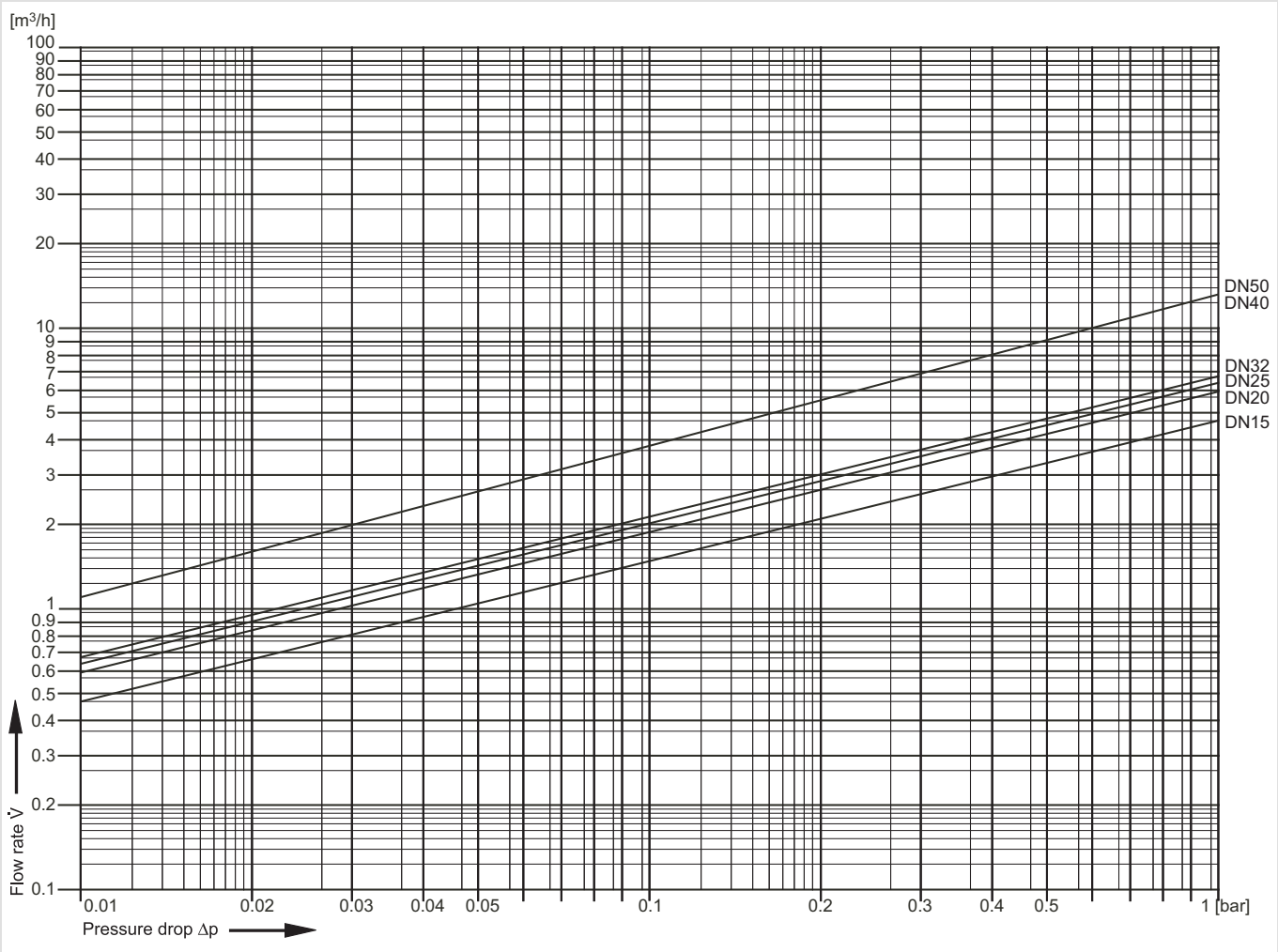


Technical Characteristics

kvs-Values

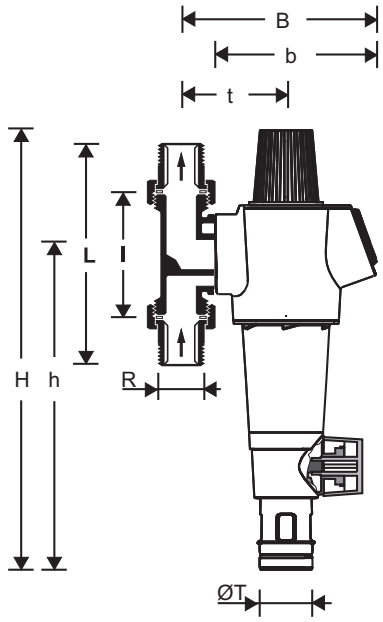
Connection size:	DN 15	DN 20	DN 25	DN 32	DN 40	DN 50
k_{vs}-value (m^3/h):	4.5	5.8	6.2	6.5	11.5	11.5

Pressure drop characteristics

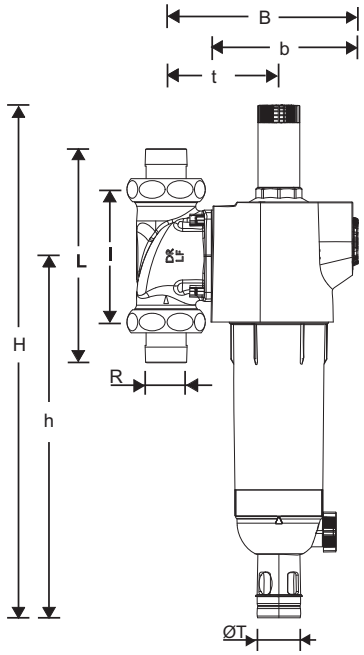


Dimensions

Overview



FK74CS-LF $^{1}/_{2}$" - $1^{1}/_{4}$"



FK74CS-LF $1^{1}/_{2}$" - 2"

Parameter		Values					
Nominal size diameter:	DN	DN15	DN20	DN25	DN32	DN40	DN50
Connection size:	R	$^{1}/_{2}$"	$^{3}/_{4}$"	1"	$1^{1}/_{4}$"	$1^{1}/_{2}$"	2"
Weight:	kg	2.3	2.3	2.6	2.9	9.8	10.7
Dimensions:	H	415	415	415	415	590	590
	h	298	298	298	298	416	416
	L	150	158	179	197	246	267
	I	90	90	100	105	150	150
	B	178	178	178	182	216	216
	b	150	150	150	150	187	187
	t	92	92	92	96	130	130
	ØT	50	50	50	50	50	50

Note: All dimensions in mm unless stated otherwise.

Ordering Information

The following tables contain all the information you need to make an order of an item of your choice.

Options

Connection size:	Filter mesh size:	Rotable connector piece:	Item No.
$^{1}/_{2}$"	100 µm	Yes	FK74CS-1/2LFAA
$^{3}/_{4}$"	100 µm	Yes	FK74CS-3/4LFAA
1"	100 µm	Yes	FK74CS-1LFAA
$1^{1}/_{4}$"	100 µm	Yes	FK74CS-11/4LFAA
$1^{1}/_{2}$"	100 µm	Yes	FK74CS-11/2LFAA
2"	100 µm	Yes	FK74CS-2LFAA

Accessories

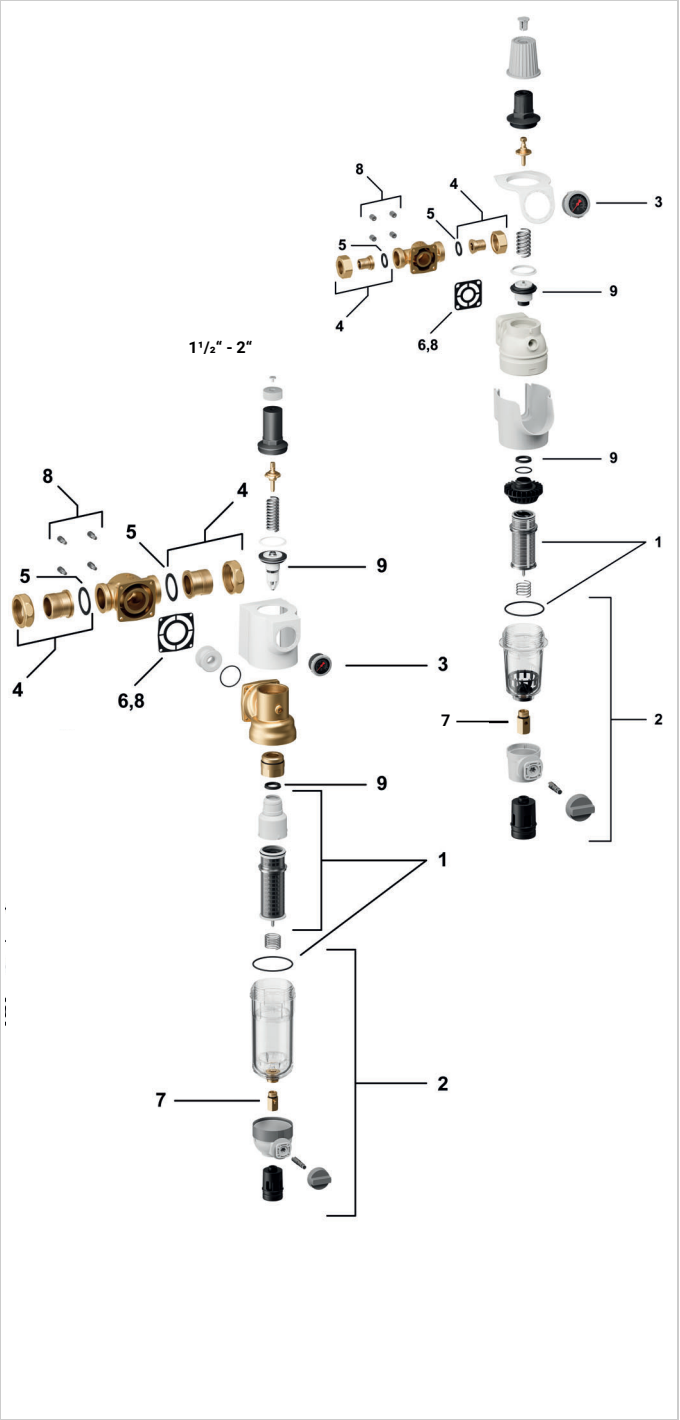
	Description		Dimension	Item No.
	**DA74**	**Rotatable connector piece** For connection of retrofit filters and filter combinations		
		DZR brass	$^1/_2$"	DA74CS-1/2A
		DZR brass	$^3/_4$"	DA74C-3/4A
		DZR brass	1"	DA74C-1A
		DZR brass	$1^1/_4$"	DA74C-11/4A
		lead-free	$^1/_2$"	DA74CS-1/2LFA
		lead-free	$^3/_4$"	DA74CS-3/4LFA
		lead-free	1"	DA74CS-1LFA
		lead-free	$1^1/_4$"	DA74CS-11/4LFA
		lead-free	$1^1/_2$"	DA74CS-11/2LFA
		lead-free	2"	DA74CS-2LFA
	**ZR74CS**	**Double ring wrench for removing the filter bowl**		
			$^1/_2$" + $1^1/_4$"	ZR74CS
	**ZR10K**	**Double ring wrench for removing the filter bowl**		
			$1^1/_2$" + 2"	ZR10K-11/2
	**RR74S**	**Automatic reverse rinsing actuator** For automatic filter cleaning at presettable intervals		
		with ISO-flange, F03 3 Nm, 230 V, 50 Hz, 5 W	$^1/_2$" - 2"	RR74S-A
	**RR11S**	**Automatic reverse rinsing actuator** For automatic filter cleaning at presettable intervals		
		with ISO-flange, F03 5 Nm, 230 V, 50 Hz, 5 W, BMS interface	$^1/_2$" - 2"	RR11S-A RR11S-AGB (UK-version)

	URS/URSP	Retrofit kit F*74CS		
		for filter bowl up to May 2025 with back wash actuator RR74S / RR11S	$^1/_2$" - $1^1/_4$"	URSP-1AR
			$1^1/_2$" - 2"	URS-11/2AR
		for filter bowl from June 2025 on with back wash actuator Z74S / Z11S	$^1/_2$" - $1^1/_4$"	URSP-1NZ
			$1^1/_2$" - 2"	URS-11/2NZ

Spare Parts

Filter combinations FK74CS / FKN74CS from June 2025 onwards

Overview



	Description	Dimension	Item No.
1	**Filter insert complete**		
	100 µm	1/2" - 1 1/4"	AF74-1A
	50 µm	1/2" - 1 1/4"	AF74-1C
	200 µm	1/2" - 1 1/4"	AF74-1D
	100µm	1 1/2" - 2"	AF11S-11/2A
	20 µm	1 1/2" - 2"	AF11S-11/2B
	50 µm	1 1/2" - 2"	AF11S-11/2C
	200 µm	1 1/2" - 2"	AF11S-11/2D
2	**Clear filter bowl**		
	lead-free	1/2" - 1 1/4"	KF74CS-1LFA
	lead-free	1 1/2" - 2"	KF11S-11/2LFA
3	**Pressure gauge rear connection thread G1/4"**		
		0 - 16 bar	M74CS-A16
4	**Connection set threaded connection**		
	DZR brass	1/2"	VST06-1/2AR
	DZR brass	3/4"	VST06-3/4A
	DZR brass	1"	VST06-1A
	DZR brass	1 1/4"	VST06-11/4A
	lead-free	1/2"	VST74CS-1/2LFA
	lead-free	3/4"	VST06-3/4LFA
	lead-free	1"	VST06-1LFA
	lead-free	1 1/4"	VST06-11/4LFA
	lead-free	1 1/2"	VST74CS-11/2LFA
	lead-free	2"	VST06-2LFA
5	**Union seal washer (10 pcs.)**		
		3/4"	0901444
		1"	0901445
		1 1/4"	0901446
		1 1/2"	0901447
		2"	0901448
6	**Flange seal**		
		1/2" - 1 1/4"	5975900
		1 1/2" - 2"	5975901
7	**Ball valve complete**		
	lead-free		KH11S-1LFA
8	**Flange seal incl. screws**		
		1/2" - 1 1/4"	DS-FX74CS
		1 1/2" - 2"	DS-FX74CS-11/2
9	**Valve insert complete**		
	lead-free	1/2" - 1 1/4"	D06FA-1LF
	lead-free	1 1/2" - 2"	D06FA-11/2LF

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